

ANALYTICAL REPORT

Job Number: 360-24080-1

Job Description: Slurry Wall/Cap- Surface waters

For:

Olin Corporation
3855 North Ocoee Street
Suite 200
Cleveland, TN 37312-4441
Attention: Mr. Steven Morrow

CHECKED FOR COMPLETENESS
OF PARAMETERS ORDERED BY:



Approved for release.
Joe Chimi
Report Production Representative
8/18/09 12:19 PM

Designee for
Becky C Mason
Project Manager II
becky.mason@testamericainc.com
08/18/2009

Results relate only to the items tested and the sample(s) as received by the laboratory. The test results in this report meet all NELAC requirements for accredited parameters, exceptions are noted in this report. Pursuant to NELAC, this report may not be reproduced except in full, and with written approval from the laboratory. TestAmerica Westfield Certifications and Approvals: MADEP MA014, RIDOH57, CTDPH 0494, VT DECWSD, NH DES 2539, NELAP FL E87912 TOX, NELAP NJ MA008 TOX, NELAP NY 10843, NY ELAP 10843, North Carolina 647, NELAP PA 68-04386. Field sampling is performed under SOPs WE-FLD-001 and WE-FLD-002.

TestAmerica Laboratories, Inc.

TestAmerica Westfield Westfield Executive Park, 53 Southampton Road, Westfield, MA 01085

Tel (413) 572-4000 Fax (413) 572-3707 www.testamericainc.com



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MADEP MCP Analytical Method Report Certification Form

Laboratory Name: TestAmerica Westfield	Project #: 360-24080-1
Project Location: Slurry Wall / Cap	MADEP RTN ¹ :
This form provides certifications for the following data set:[list Laboratory Sample ID Number(s)] 360-24080-(1-8)	
Sample Matrices:	Groundwater Soil/Sediment Drinking Water Other:
MCP SW-846 Methods Used	8260B() 8151A () 8330 () 6010B (x) 7470A/1A () Other ()
	8270C() 8081A () VPH () 6020 () 9014M ² /9012 ()
	8082 () 8021B () EPH () 7000 S ³ () 7196A ()
As specified in MADEP Compendium of Analytical Methods. (check all that apply)	1 List Release Tracking Number (RTN), if known 2 M - SW-846 Method 9014 or MADEP Physiologically Available Cyanide (PAC) Method 3 S - SW-846 Methods 7000 Series List individual method and analyte.

An affirmative response to questions A, B, C and D is required for "Presumptive Certainty" status

A	Were all samples received by the laboratory in a condition consistent with that described on the Chain-of-Custody documentation for the data set?	Yes √	No ¹
B	Were all QA/QC procedures required for the specified analytical method(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines?	Yes √	No ¹
C	Does the analytical data included in this report meet all the requirements for "Presumptive Certainty", as described in Section 2.0 (a), (b), (c) and (d) of the MADEP document CAM VII A, " Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	Yes √	N/A No ¹
D	VPH and EPH methods only: Was the VPH or EPH Method conducted without significant modifications (see Section 11.3 of respective Methods)?	Yes √	N/A No ¹

A response to questions E and F below is required for "Presumptive Certainty" status

E	Were all QC performance standards and recommendations for the specified methods achieved?	Yes	No ¹ √
F	Were results for all analyte-list compounds/elements for the specified method(s) reported?	Yes	N/A No ¹ √

¹ All Negative responses must be addressed in an attached Environmental Laboratory case narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: 

Position: Laboratory Director



Printed Name: Steven C. Hartmann

Date: 8/18/09 12:06

The certification form has been electronically signed and approved.

CAM VII A, Rev 3.2

April-04

 THE LEADER IN ENVIRONMENTAL TESTING	MADEP MA014 NY DOH 10843 RI DOH 57 CT DPH 0494 VT DECWSD	NELAP FL E87912 TOX NELAP NJ MA008 TOX NELAP NY 10843 NH DES 253901-A 
TestAmerica Westfield 53 Southampton Rd, Westfield, MA 01085 Tel:(413)572-4000 Fax:(413)572-3707		

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: TestAmerica Westfield	Project #: 360-24080-1
Project Location: Slurry Wall / Cap	MADEP RTN ¹ :
This form provides certifications for the following data set:[list Laboratory Sample ID Number(s)] 360-24080-(1-8)	
Sample Matrices:	Groundwater Soil/Sediment Drinking Water Other:
MCP SW-846 Methods Used	8260B () 8151A () 8330 () 6010B () 7470A/1A () Other (x)
	8270C () 8081A () VPH () 6020 () 9014M ² /9012 ()
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As specified in MADEP Compendium of Analytical Methods. (check all that apply)	1 List Release Tracking Number (RTN), if known 2 M - SW-846 Method 9014 or MADEP Physiologically Available Cyanide (PAC) Method 3 S - SW-846 Methods 7000 Series List individual method and analyte.

An affirmative response to questions A, B, C and D is required for "Presumptive Certainty" status

A	Were all samples received by the laboratory in a condition consistent with that described on the Chain-of-Custody documentation for the data set?	Yes √	No ¹
B	Were all QA/QC procedures required for the specified analytical method(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines?	Yes √	No ¹
C	Does the analytical data included in this report meet all the requirements for "Presumptive Certainty", as described in Section 2.0 (a), (b), (c) and (d) of the MADEP document CAM VII A, " Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	Yes N/A √	No ¹
D	VPH and EPH methods only: Was the VPH or EPH Method conducted without significant modifications (see Section 11.3 of respective Methods)?	Yes N/A √	No ¹

A response to questions E and F below is required for "Presumptive Certainty" status

E	Were all QC performance standards and recommendations for the specified methods achieved?	Yes	No ¹ √
F	Were results for all analyte-list compounds/elements for the specified method(s) reported?	Yes N/A √	No ¹

¹ All Negative responses must be addressed in an attached Environmental Laboratory case narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: 

Position: Laboratory Director

Printed Name: Steven C. Hartmann

Date: 8/18/09 12:06

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CAM VII A, Rev 3.2

April-04

 THE LEADER IN ENVIRONMENTAL TESTING	MADEP MA014 NY DOH 10843 RI DOH 57 CT DPH 0494 VT DECWSD	NELAP FL E87912 TOX NELAP NJ MA008 TOX NELAP NY 10843 NH DES 253901-A	TestAmerica Westfield 53 Southampton Rd, Westfield, MA 01085 Tel:(413)572-4000 Fax:(413)572-3707
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CASE NARRATIVE

Client: Olin Corporation

Project: Slurry Wall/Cap- Surface waters

Report Number: 360-24080-1

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues as stipulated in the MCP reporting requirements.

In order to facilitate report review, a separate MCP Analytical Method Report Certification Form is included for each method requested.

It should be noted that samples with elevated Reporting Limits (RLs) as a result of a dilution may not be able to satisfy "MCP program" reporting limits in some cases if the "adjusted" RL is greater than the applicable MCP standards or criterion to which the concentration is being compared. Such increases in the RLs are an unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes which exceed the calibration range.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

The samples were received on 08/12/2009; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 0.8°C.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC and MADEP standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

MCP regulatory standard criteria were not specified for this report. Therefore, method reporting limits (RLs) were not assessed against any MCP standards as it may pertain to Question "E" on the Presumptive Certainty Certification Form (MADEP reference: WSC-CAM-AN-093008 - WSC-CAM Analytical Notes).

DISSOLVED METALS

Samples 360-24080-1 through 360-24080-8 were analyzed for dissolved metals in accordance with EPA SW846 Method 6010B. The samples were analyzed on 08/13/2009.

All QA/QC procedures required to meet Presumptive Certainty for the specified analytical method were performed as per section B of the MADEP MCP analytical method report Certification form.

All QC performance standards and recommendations, which may affect Data Usability for this specific method, were achieved with the exception of:

Sodium failed the MS/MSD recovery criteria low for the matrix spike duplicate of sample 360-24080-6. The associated LCS and LCSD recovered within control limits. The sample concentration was greater than four times the spike concentration. Refer to the QC report for details.

General method information:

At the request of the client, an abbreviated/modified MCP analyte list was reported for this job.

TOTAL METALS

Samples 360-24080-1 through 360-24080-8 were analyzed for total metals in accordance with EPA SW846 Method 6010B. The samples were prepared on 08/13/2009 and analyzed on 08/13/2009 and 08/14/2009.

All QA/QC procedures required to meet Presumptive Certainty for the specified analytical method were performed as per section B of the MADEP MCP analytical method report Certification form.

All QC performance standards and recommendations, which may affect Data Usability for this specific method, were achieved with the exception of:

Sodium failed the MS/MSD recovery criteria low for the matrix spike of sample 360-24080-6 and matrix spike duplicate of sample 360-24080-6. The associated LCS and LCSD recovered within control limits. Refer to the QC report for details.

General method information:

Sample 360-24080-5(5X) required dilution prior to analysis. The reporting limits have been adjusted accordingly. Dilution was due to high target concentration.

At the request of the client, an abbreviated/modified MCP analyte list was reported for this job.

The following reported methods are not listed in the MADEP Massachusetts Contingency Plan (MCP) Compendium of Analytical Methods (CAM), pursuant to the provisions of 310 CMR 40.0017(2).

ANIONS

Samples 360-24080-1 through 360-24080-8 were analyzed for anions in accordance with EPA Method 300.0. The samples were analyzed on 08/13/2009 and 08/14/2009.

All QC performance standards and recommendations for this specific method were achieved with the exception of:

Sulfate failed the MS/MSD recovery criteria high for the matrix spike of sample 360-24080-6 and matrix spike duplicate of sample 360-24080-6. The associated LCS recovered within control limits. Refer to the QC report for details.

Samples 360-24080-1 through 360-24080-8(10X) required dilution prior to analysis. The reporting limits have been adjusted accordingly. Dilutions were due to high target concentration.

AMMONIA

Samples 360-24080-1 through 360-24080-8 were analyzed for ammonia in accordance with LACHAT 107-06-1B. The samples were prepared and analyzed on 08/13/2009 and 08/17/2009.

All QC performance standards and recommendations for this specific method were achieved with the exception of:

Ammonia failed the MS/MSD recovery criteria low for the matrix spike of sample 360-24080-6 and matrix spike duplicate of sample 360-24080-6. The associated LCS recovered within control limits. The sample concentration was greater than four times the spike concentration. Refer to the QC report for details.

Samples 360-24080-2(20X), 360-24080-3 through 360-24080-5(10X) and 360-24080-6 through 360-24080-8(5X) required dilution prior to analysis. The reporting limits have been adjusted accordingly. Dilutions were due to high concentration.

SPECIFIC CONDUCTANCE (CONDUCTIVITY)

Samples 360-24080-1 through 360-24080-8 were analyzed for Specific Conductance (Conductivity) in accordance with SM 2510B. The samples were analyzed on 08/14/2009.

All QC performance standards and recommendations for this specific method were achieved.

This case narrative is available in Word format upon request.

EXECUTIVE SUMMARY - Detections

Client: Olin Corporation

Job Number: 360-24080-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
360-24080-1	OC-ISCO-3				
Aluminum		4800	100	ug/L	6010B
Chromium		17	5.0	ug/L	6010B
Sodium		76000	2000	ug/L	6010B
Sulfate		34	2.0	mg/L	300.0
Nitrate as N		0.81	0.050	mg/L	300.0
Chloride		170	10	mg/L	300.0
Ammonia		2.3	0.10	mg/L	L107-06-1B
Specific Conductance		740	1.0	umhos/cm	SM 2510B
<i>Dissolved</i>					
Sodium		91000	2000	ug/L	6010B
360-24080-2	OC-ISCO-2				
Aluminum		9600	100	ug/L	6010B
Chromium		2200	5.0	ug/L	6010B
Sodium		190000	2000	ug/L	6010B
Sulfate		900	20	mg/L	300.0
Nitrate as N		0.81	0.050	mg/L	300.0
Chloride		200	10	mg/L	300.0
Ammonia		250	2.0	mg/L	L107-06-1B
Specific Conductance		2600	1.0	umhos/cm	SM 2510B
<i>Dissolved</i>					
Aluminum		46 J	100	ug/L	6010B
Chromium		33	5.0	ug/L	6010B
Sodium		220000	2000	ug/L	6010B
360-24080-3	OC-PZ-16RR				
Aluminum		6200	100	ug/L	6010B
Chromium		1700	5.0	ug/L	6010B
Sodium		200000	2000	ug/L	6010B
Sulfate		880	20	mg/L	300.0
Nitrate as N		0.52	0.050	mg/L	300.0
Chloride		210	10	mg/L	300.0
Ammonia		180	1.0	mg/L	L107-06-1B
Specific Conductance		2600	1.0	umhos/cm	SM 2510B
<i>Dissolved</i>					
Aluminum		1800	100	ug/L	6010B
Chromium		820	5.0	ug/L	6010B
Sodium		230000	2000	ug/L	6010B

EXECUTIVE SUMMARY - Detections

Client: Olin Corporation

Job Number: 360-24080-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
360-24080-4	OC-PZ-17RR				
Aluminum		98000	100	ug/L	6010B
Chromium		22000	5.0	ug/L	6010B
Sodium		200000	2000	ug/L	6010B
Sulfate		870	20	mg/L	300.0
Nitrate as N		0.41	0.050	mg/L	300.0
Chloride		200	10	mg/L	300.0
Ammonia		160	1.0	mg/L	L107-06-1B
Specific Conductance		2700	1.0	umhos/cm	SM 2510B
<i>Dissolved</i>					
Aluminum		3600	100	ug/L	6010B
Chromium		1200	5.0	ug/L	6010B
Sodium		240000	2000	ug/L	6010B
360-24080-5	OC-SD-17				
Aluminum		280000	500	ug/L	6010B
Chromium		64000	25	ug/L	6010B
Sodium		220000	10000	ug/L	6010B
Sulfate		820	20	mg/L	300.0
Nitrate as N		0.50	0.050	mg/L	300.0
Chloride		160	10	mg/L	300.0
Ammonia		170	1.0	mg/L	L107-06-1B
Specific Conductance		2500	1.0	umhos/cm	SM 2510B
<i>Dissolved</i>					
Aluminum		610	100	ug/L	6010B
Chromium		470	5.0	ug/L	6010B
Sodium		200000	2000	ug/L	6010B
360-24080-6	OC-PZ-18R				
Aluminum		79	100	ug/L	6010B
Chromium		14	5.0	ug/L	6010B
Sodium		77000	2000	ug/L	6010B
Sulfate		180	20	mg/L	300.0
Nitrate as N		0.18	0.050	mg/L	300.0
Chloride		110	10	mg/L	300.0
Ammonia		58	0.50	mg/L	L107-06-1B
Specific Conductance		900	1.0	umhos/cm	SM 2510B
<i>Dissolved</i>					
Chromium		5.2	5.0	ug/L	6010B
Sodium		94000	2000	ug/L	6010B

EXECUTIVE SUMMARY - Detections

Client: Olin Corporation

Job Number: 360-24080-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
360-24080-7	OC-ISCO-1				
Aluminum		120	100	ug/L	6010B
Chromium		17	5.0	ug/L	6010B
Sodium		75000	2000	ug/L	6010B
Sulfate		180	20	mg/L	300.0
Nitrate as N		0.18	0.050	mg/L	300.0
Chloride		110	10	mg/L	300.0
Ammonia		48	0.50	mg/L	L107-06-1B
Specific Conductance		900	1.0	umhos/cm	SM 2510B
<i>Dissolved</i>					
Chromium		6.8	5.0	ug/L	6010B
Sodium		87000	2000	ug/L	6010B
360-24080-8	OC-PZ-18R DUP				
Aluminum		78 J	100	ug/L	6010B
Chromium		14	5.0	ug/L	6010B
Sodium		80000	2000	ug/L	6010B
Sulfate		170	20	mg/L	300.0
Nitrate as N		0.18	0.050	mg/L	300.0
Chloride		110	10	mg/L	300.0
Ammonia		55	0.50	mg/L	L107-06-1B
Specific Conductance		890	1.0	umhos/cm	SM 2510B
<i>Dissolved</i>					
Chromium		5.6	5.0	ug/L	6010B
Sodium		88000	2000	ug/L	6010B

METHOD SUMMARY

Client: Olin Corporation

Job Number: 360-24080-1

Description		Lab Location	Method	Preparation Method
Matrix	Water			
Dissolved Metals		TAL WFD	SW846 6010B	
Total Metals		TAL WFD	SW846 6010B	
	Sample Filtration, Field	TAL WFD		FIELD_FLTRD
	Preparation, Total Metals	TAL WFD		SW846 3010A
Chloride & Sulfate		TAL WFD	40CFR136A 300.0	
Nitrate & Nitrite		TAL WFD	40CFR136A 300.0	
Nitrogen Ammonia		TAL WFD	LACHAT L107-06-1B	
	Distillation, Ammonia	TAL WFD		Distill/Ammonia
Conductivity, Specific Conductance		TAL WFD	SM SM 2510B	

Lab References:

TAL WFD = TestAmerica Westfield

Method References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

LACHAT = LACHAT

SM = "Standard Methods For The Examination Of Water And Wastewater",

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: Olin Corporation

Job Number: 360-24080-1

Method	Analyst	Analyst ID
SW846 6010B	Nasiatka, Ellen M	EMN
40CFR136A 300.0	Lalashius, Andrew L	ALL
LACHAT L107-06-1B	Lalashius, Andrew L	ALL
SM SM 2510B	Emerich, Rich W	RWE

SAMPLE SUMMARY

Client: Olin Corporation

Job Number: 360-24080-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
360-24080-1	OC-ISCO-3	Water	08/12/2009 0835	08/12/2009 1840
360-24080-2	OC-ISCO-2	Water	08/12/2009 0845	08/12/2009 1840
360-24080-3	OC-PZ-16RR	Water	08/12/2009 0910	08/12/2009 1840
360-24080-4	OC-PZ-17RR	Water	08/12/2009 0925	08/12/2009 1840
360-24080-5	OC-SD-17	Water	08/12/2009 0935	08/12/2009 1840
360-24080-6	OC-PZ-18R	Water	08/12/2009 0950	08/12/2009 1840
360-24080-6MS	OC-PZ-18R MS	Water	08/12/2009 0950	08/12/2009 1840
360-24080-6MSD	OC-PZ-18R MSD	Water	08/12/2009 0950	08/12/2009 1840
360-24080-7	OC-ISCO-1	Water	08/12/2009 1010	08/12/2009 1840
360-24080-8	OC-PZ-18R DUP	Water	08/12/2009 0950	08/12/2009 1840

SAMPLE RESULTS

Mr. Steven Morrow
Olin Corporation
3855 North Ocoee Street
Suite 200
Cleveland, TN 37312-4441

Job Number: 360-24080-1

Client Sample ID: OC-ISCO-3
Lab Sample ID: 360-24080-1

Date Sampled: 08/12/2009 0835
Date Received: 08/12/2009 1840
Client Matrix: Water

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Method: Dissolved-6010B		Date Analyzed:		08/13/2009 1114	
Aluminum	ND	ug/L	39	100	1.0
Chromium	ND	ug/L	1.3	5.0	1.0
Sodium	91000 <i>3</i>	ug/L	250	2000	1.0
Method: 6010B		Date Analyzed:		08/13/2009 1525	
Prep Method: 3010A		Date Prepared:		08/13/2009 0703	
Aluminum	4800	ug/L	39	100	1.0
Chromium	17	ug/L	1.3	5.0	1.0
Sodium	76000 <i>3</i>	ug/L	250	2000	1.0

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Cleveland, TN 37312-4441

Job Number: 360-24080-1

Client Sample ID: OC-ISCO-3
Lab Sample ID: 360-24080-1

Date Sampled: 08/12/2009 0835
Date Received: 08/12/2009 1840
Client Matrix: Water

Analyte	Result/Qualifier	Unit	RL	RL	Dilution
Method: 300.0					
			Date Analyzed:	08/13/2009 1844	
Sulfate	34	mg/L	2.0	2.0	1.0
Nitrate as N	0.81	mg/L	0.050	0.050	1.0
Method: 300.0					
			Date Analyzed:	08/13/2009 1859	
Chloride	170	mg/L	10	10	10
Nitrite as N	ND	mg/L	0.10	0.10	10
Method: L107-06-1B					
			Date Analyzed:	08/13/2009 1216	
Prep Method: Distill/Ammonia			Date Prepared:	08/13/2009 0855	
Ammonia	2.3	mg/L	0.10	0.10	1.0
Method: SM 2510B					
			Date Analyzed:	08/14/2009 1232	
Specific Conductance	740	umhos/cm	1.0	1.0	1.0

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Cleveland, TN 37312-4441

Job Number: 360-24080-1

Client Sample ID: OC-ISCO-2
Lab Sample ID: 360-24080-2

Date Sampled: 08/12/2009 0845
Date Received: 08/12/2009 1840
Client Matrix: Water

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Method: Dissolved-6010B		Date Analyzed:		08/13/2009 1117	
Aluminum	46 J	ug/L	39	100	1.0
Chromium	33	ug/L	1.3	5.0	1.0
Sodium	220000 S	ug/L	250	2000	1.0
Method: 6010B		Date Analyzed:		08/13/2009 1528	
Prep Method: 3010A		Date Prepared:		08/13/2009 0703	
Aluminum	9600	ug/L	39	100	1.0
Chromium	2200	ug/L	1.3	5.0	1.0
Sodium	190000 S	ug/L	250	2000	1.0

per copy of data 9/9/09

Mr. Steven Morrow
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3855 North Ocoee Street
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Job Number: 360-24080-1

Client Sample ID: OC-ISCO-2
Lab Sample ID: 360-24080-2

Date Sampled: 08/12/2009 0845
Date Received: 08/12/2009 1840
Client Matrix: Water

Analyte	Result/Qualifier	Unit	RL	RL	Dilution
Method: 300.0					
Date Analyzed:			08/13/2009 1914		
Nitrate as N	0.81	mg/L	0.050	0.050	1.0
Method: 300.0					
Date Analyzed:			08/13/2009 1929		
Sulfate	900	mg/L	20	20	10
Chloride	200	mg/L	10	10	10
Nitrite as N	ND	mg/L	0.10	0.10	10
Method: L107-06-1B					
Date Analyzed:			08/13/2009 1229		
Prep Method: Distill/Ammonia			Date Prepared: 08/13/2009 0855		
Ammonia	250	mg/L	2.0	2.0	20
Method: SM 2510B					
Date Analyzed:			08/14/2009 1234		
Specific Conductance	2600	umhos/cm	1.0	1.0	1.0

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Job Number: 360-24080-1

Client Sample ID: OC-PZ-16RR
Lab Sample ID: 360-24080-3

Date Sampled: 08/12/2009 0910
Date Received: 08/12/2009 1840
Client Matrix: Water

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Method: Dissolved-6010B			Date Analyzed: 08/13/2009 1120		
Aluminum	1800	ug/L	39	100	1.0
Chromium	820	ug/L	1.3	5.0	1.0
Sodium	230000 J	ug/L	250	2000	1.0
Method: 6010B			Date Analyzed: 08/13/2009 1531		
Prep Method: 3010A			Date Prepared: 08/13/2009 0703		
Aluminum	6200	ug/L	39	100	1.0
Chromium	1700	ug/L	1.3	5.0	1.0
Sodium	200000 J	ug/L	250	2000	1.0

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9/9/09

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Job Number: 360-24080-1

Client Sample ID: OC-PZ-16RR
Lab Sample ID: 360-24080-3

Date Sampled: 08/12/2009 0910
 Date Received: 08/12/2009 1840
 Client Matrix: Water

Analyte	Result/Qualifier	Unit	RL	RL	Dilution
Method: 300.0 Date Analyzed: 08/13/2009 1945					
Nitrate as N	0.52	mg/L	0.050	0.050	1.0
Method: 300.0 Date Analyzed: 08/13/2009 2000					
Sulfate	880	mg/L	20	20	10
Chloride	210	mg/L	10	10	10
Nitrite as N	ND	mg/L	0.10	0.10	10
Method: L107-06-1B Date Analyzed: 08/13/2009 1226					
Prep Method: Distill/Ammonia Date Prepared: 08/13/2009 0855					
Ammonia	180	mg/L	1.0	1.0	10
Method: SM 2510B Date Analyzed: 08/14/2009 1235					
Specific Conductance	2600	umhos/cm	1.0	1.0	1.0

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Job Number: 360-24080-1

Client Sample ID: OC-PZ-17RR
Lab Sample ID: 360-24080-4

Date Sampled: 08/12/2009 0925
Date Received: 08/12/2009 1840
Client Matrix: Water

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Method: Dissolved-6010B		Date Analyzed:		08/13/2009 1123	
Aluminum	3600	ug/L	39	100	1.0
Chromium	1200	ug/L	1.3	5.0	1.0
Sodium	240000 J	ug/L	250	2000	1.0
Method: 6010B		Date Analyzed:		08/13/2009 1534	
Prep Method: 3010A		Date Prepared:		08/13/2009 0703	
Aluminum	98000	ug/L	39	100	1.0
Chromium	22000	ug/L	1.3	5.0	1.0
Sodium	200000 J	ug/L	250	2000	1.0

W/HP/CLL 8/9/09

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Job Number: 360-24080-1

Client Sample ID: OC-PZ-17RR
Lab Sample ID: 360-24080-4

Date Sampled: 08/12/2009 0925
Date Received: 08/12/2009 1840
Client Matrix: Water

Analyte	Result/Qualifier	Unit	RL	RL	Dilution
Method: 300.0					
Date Analyzed: 08/13/2009 2216					
Nitrate as N	0.41	mg/L	0.050	0.050	1.0
Method: 300.0					
Date Analyzed: 08/13/2009 2231					
Sulfate	870	mg/L	20	20	10
Chloride	200	mg/L	10	10	10
Nitrite as N	ND	mg/L	0.10	0.10	10
Method: L107-06-1B					
Date Analyzed: 08/13/2009 1227					
Prep Method: Distill/Ammonia					
Date Prepared: 08/13/2009 0855					
Ammonia	160	mg/L	1.0	1.0	10
Method: SM 2510B					
Date Analyzed: 08/14/2009 1237					
Specific Conductance	2700	umhos/cm	1.0	1.0	1.0

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Job Number: 360-24080-1

Client Sample ID: OC-SD-17
Lab Sample ID: 360-24080-5

Date Sampled: 08/12/2009 0935
Date Received: 08/12/2009 1840
Client Matrix: Water

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Method: Dissolved-6010B		Date Analyzed: 08/13/2009 1126			
Aluminum	610	ug/L	39	100	1.0
Chromium	470	ug/L	1.3	5.0	1.0
Sodium	200000	ug/L	250	2000	1.0
Method: 6010B		Date Analyzed: 08/14/2009 1048			
Prep Method: 3010A		Date Prepared: 08/13/2009 0703			
Aluminum	280000	ug/L	200	500	5.0
Chromium	64000	ug/L	6.6	25	5.0
Sodium	220000	ug/L	1200	10000	5.0

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Job Number: 360-24080-1

Client Sample ID: OC-SD-17
Lab Sample ID: 360-24080-5

Date Sampled: 08/12/2009 0935
Date Received: 08/12/2009 1840
Client Matrix: Water



Analyte	Result/Qualifier	Unit	RL	RL	Dilution
Method: 300.0			Date Analyzed:	08/13/2009 2246	
Nitrate as N	0.50	mg/L	0.050	0.050	1.0
Method: 300.0			Date Analyzed:	08/13/2009 2301	
Sulfate	820	mg/L	20	20	10
Chloride	160	mg/L	10	10	10
Nitrite as N	ND	mg/L	0.10	0.10	10
Method: L107-06-1B			Date Analyzed:	08/13/2009 1228	
Prep Method: Distill/Ammonia			Date Prepared:	08/13/2009 0855	
Ammonia	170	mg/L	1.0	1.0	10
Method: SM 2510B			Date Analyzed:	08/14/2009 1238	
Specific Conductance	2500	umhos/cm	1.0	1.0	1.0

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Job Number: 360-24080-1

Client Sample ID: OC-PZ-18R
Lab Sample ID: 360-24080-6

Date Sampled: 08/12/2009 0950
Date Received: 08/12/2009 1840
Client Matrix: Water

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Method: Dissolved-6010B		Date Analyzed:		08/13/2009 1057	
Aluminum	ND	ug/L	39	100	1.0
Chromium	5.2	ug/L	1.3	5.0	1.0
Sodium	94000 	ug/L	250	2000	1.0
Method: 6010B		Date Analyzed:		08/13/2009 1514	
Prep Method: 3010A		Date Prepared:		08/13/2009 0703	
Aluminum	79 J	ug/L	39	100	1.0
Chromium	14	ug/L	1.3	5.0	1.0
Sodium	77000 	ug/L	250	2000	1.0

Steve Morrow 7/9/09

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Job Number: 360-24080-1

Client Sample ID: OC-PZ-18R
Lab Sample ID: 360-24080-6

Date Sampled: 08/12/2009 0950
Date Received: 08/12/2009 1840
Client Matrix: Water

Analyte	Result/Qualifier	Unit	RL	RL	Dilution
Method: 300.0 Nitrate as N	0.18	mg/L	0.050	0.050	1.0
Method: 300.0 Sulfate	180	mg/L	20	20	10
Chloride	110	mg/L	10	10	10
Method: 300.0 Nitrite as N	ND	mg/L	0.10	0.10	10
Method: L107-06-1B Prep Method: Distill/Ammonia Ammonia	58	mg/L	0.50	0.50	5.0
Method: SM 2510B Specific Conductance	900	umhos/cm	1.0	1.0	1.0

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Job Number: 360-24080-1

Client Sample ID: OC-ISCO-1
Lab Sample ID: 360-24080-7

Date Sampled: 08/12/2009 1010
Date Received: 08/12/2009 1840
Client Matrix: Water

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Method: Dissolved-6010B			Date Analyzed: 08/13/2009 1129		
Aluminum	ND	ug/L	39	100	1.0
Chromium	6.8	ug/L	1.3	5.0	1.0
Sodium	87000 J	ug/L	250	2000	1.0
Method: 6010B			Date Analyzed: 08/13/2009 1546		
Prep Method: 3010A			Date Prepared: 08/13/2009 0703		
Aluminum	120	ug/L	39	100	1.0
Chromium	17	ug/L	1.3	5.0	1.0
Sodium	75000 J	ug/L	250	2000	1.0

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9/5/09

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Job Number: 360-24080-1

Client Sample ID: OC-ISCO-1
Lab Sample ID: 360-24080-7

Date Sampled: 08/12/2009 1010
Date Received: 08/12/2009 1840
Client Matrix: Water

Analyte	Result/Qualifier	Unit	RL	RL	Dilution
Method: 300.0			Date Analyzed:	08/13/2009 2316	
Nitrate as N	0.18	mg/L	0.050	0.050	1.0
Method: 300.0			Date Analyzed:	08/13/2009 2331	
Sulfate	180	mg/L	20	20	10
Chloride	110	mg/L	10	10	10
Nitrite as N	ND	mg/L	0.10	0.10	10
Method: L107-06-1B			Date Analyzed:	08/17/2009 1548	
Prep Method: Distill/Ammonia			Date Prepared:	08/17/2009 1345	
Ammonia	48	mg/L	0.50	0.50	5.0
Method: SM 2510B			Date Analyzed:	08/14/2009 1243	
Specific Conductance	900	umhos/cm	1.0	1.0	1.0

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Job Number: 360-24080-1

Client Sample ID: OC-PZ-18R DUP
Lab Sample ID: 360-24080-8

Date Sampled: 08/12/2009 0950
Date Received: 08/12/2009 1840
Client Matrix: Water

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Method: Dissolved-6010B			Date Analyzed:	08/13/2009 1132	
Aluminum	ND	ug/L	39	100	1.0
Chromium	5.6	ug/L	1.3	5.0	1.0
Sodium	88000	ug/L	250	2000	1.0
Method: 6010B			Date Analyzed:	08/13/2009 1549	
Prep Method: 3010A			Date Prepared:	08/13/2009 0703	
Aluminum	78 J	ug/L	39	100	1.0
Chromium	14	ug/L	1.3	5.0	1.0
Sodium	80000	ug/L	250	2000	1.0

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Job Number: 360-24080-1

Client Sample ID: OC-PZ-18R DUP
Lab Sample ID: 360-24080-8

Date Sampled: 08/12/2009 0950
Date Received: 08/12/2009 1840
Client Matrix: Water

Analyte	Result/Qualifier	Unit	RL	RL	Dilution
Method: 300.0 Nitrate as N	0.18	mg/L	0.050	0.050	1.0
Method: 300.0 Sulfate	170	mg/L	20	20	10
Chloride	110	mg/L	10	10	10
Nitrite as N	ND	mg/L	0.10	0.10	10
Method: L107-06-1B Prep Method: Distill/Ammonia Ammonia	55	mg/L	0.50	0.50	5.0
Method: SM 2510B Specific Conductance	890	umhos/cm	1.0	1.0	1.0

W. M. Morrow
9/9/09

DATA REPORTING QUALIFIERS

Client: Olin Corporation

Job Number: 360-24080-1

Lab Section	Qualifier	Description
Metals		
	F	MS or MSD exceeds the control limits
	4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
General Chemistry		
	F	MS or MSD exceeds the control limits
	4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.

QUALITY CONTROL RESULTS

Quality Control Results

Client: Olin Corporation

Job Number: 360-24080-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report		Method	Prep Batch
		Basis	Client Matrix		
Metals					
Prep Batch: 360-47711					
LCS 360-47711/2-A	Lab Control Sample	T	Water	3010A	
LCSD 360-47711/3-A	Lab Control Sample Duplicate	T	Water	3010A	
MB 360-47711/1-A	Method Blank	T	Water	3010A	
360-24080-1	OC-ISCO-3	T	Water	3010A	
360-24080-2	OC-ISCO-2	T	Water	3010A	
360-24080-3	OC-PZ-16RR	T	Water	3010A	
360-24080-4	OC-PZ-17RR	T	Water	3010A	
360-24080-5	OC-SD-17	T	Water	3010A	
360-24080-6	OC-PZ-18R	T	Water	3010A	
360-24080-6MS	Matrix Spike	T	Water	3010A	
360-24080-6MSD	Matrix Spike Duplicate	T	Water	3010A	
360-24080-7	OC-ISCO-1	T	Water	3010A	
360-24080-8	OC-PZ-18R DUP	T	Water	3010A	
Analysis Batch:360-47738					
LCS 360-47738/1	Lab Control Sample	T	Water	6010B	
LCSD 360-47738/4	Lab Control Sample Duplicate	T	Water	6010B	
MB 360-47738/2	Method Blank	T	Water	6010B	
360-24080-1	OC-ISCO-3	D	Water	6010B	
360-24080-2	OC-ISCO-2	D	Water	6010B	
360-24080-3	OC-PZ-16RR	D	Water	6010B	
360-24080-4	OC-PZ-17RR	D	Water	6010B	
360-24080-5	OC-SD-17	D	Water	6010B	
360-24080-6	OC-PZ-18R	D	Water	6010B	
360-24080-6MS	Matrix Spike	D	Water	6010B	
360-24080-6MSD	Matrix Spike Duplicate	D	Water	6010B	
360-24080-7	OC-ISCO-1	D	Water	6010B	
360-24080-8	OC-PZ-18R DUP	D	Water	6010B	
Analysis Batch:360-47761					
LCS 360-47711/2-A	Lab Control Sample	T	Water	6010B	360-47711
LCSD 360-47711/3-A	Lab Control Sample Duplicate	T	Water	6010B	360-47711
MB 360-47711/1-A	Method Blank	T	Water	6010B	360-47711
360-24080-1	OC-ISCO-3	T	Water	6010B	360-47711
360-24080-2	OC-ISCO-2	T	Water	6010B	360-47711
360-24080-3	OC-PZ-16RR	T	Water	6010B	360-47711
360-24080-4	OC-PZ-17RR	T	Water	6010B	360-47711
360-24080-6	OC-PZ-18R	T	Water	6010B	360-47711
360-24080-6MS	Matrix Spike	T	Water	6010B	360-47711
360-24080-6MSD	Matrix Spike Duplicate	T	Water	6010B	360-47711
360-24080-7	OC-ISCO-1	T	Water	6010B	360-47711
360-24080-8	OC-PZ-18R DUP	T	Water	6010B	360-47711
Analysis Batch:360-47787					
360-24080-5	OC-SD-17	T	Water	6010B	360-47711

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Quality Control Results

Client: Olin Corporation

Job Number: 360-24080-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
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Report Basis

D = Dissolved

T = Total

Quality Control Results

Client: Olin Corporation

Job Number: 360-24080-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report		Method	Prep Batch
		Basis	Client Matrix		
General Chemistry					
Prep Batch: 360-47731					
LCS 360-47731/2-A	Lab Control Sample	T	Water	Distill/Ammonia	
MB 360-47731/1-A	Method Blank	T	Water	Distill/Ammonia	
360-24080-1	OC-ISCO-3	T	Water	Distill/Ammonia	
360-24080-2	OC-ISCO-2	T	Water	Distill/Ammonia	
360-24080-3	OC-PZ-16RR	T	Water	Distill/Ammonia	
360-24080-4	OC-PZ-17RR	T	Water	Distill/Ammonia	
360-24080-5	OC-SD-17	T	Water	Distill/Ammonia	
Analysis Batch:360-47735					
LCS 360-47731/2-A	Lab Control Sample	T	Water	L107-06-1B	360-47731
MB 360-47731/1-A	Method Blank	T	Water	L107-06-1B	360-47731
360-24080-1	OC-ISCO-3	T	Water	L107-06-1B	360-47731
360-24080-2	OC-ISCO-2	T	Water	L107-06-1B	360-47731
360-24080-3	OC-PZ-16RR	T	Water	L107-06-1B	360-47731
360-24080-4	OC-PZ-17RR	T	Water	L107-06-1B	360-47731
360-24080-5	OC-SD-17	T	Water	L107-06-1B	360-47731
Analysis Batch:360-47788					
LCS 360-47788/4	Lab Control Sample	T	Water	300.0	
MB 360-47788/3	Method Blank	T	Water	300.0	
360-24080-1	OC-ISCO-3	T	Water	300.0	
360-24080-2	OC-ISCO-2	T	Water	300.0	
360-24080-3	OC-PZ-16RR	T	Water	300.0	
Analysis Batch:360-47789					
LCS 360-47789/4	Lab Control Sample	T	Water	300.0	
MB 360-47789/3	Method Blank	T	Water	300.0	
360-24080-4	OC-PZ-17RR	T	Water	300.0	
360-24080-5	OC-SD-17	T	Water	300.0	
360-24080-6	OC-PZ-18R	T	Water	300.0	
360-24080-6MS	Matrix Spike	T	Water	300.0	
360-24080-6MSD	Matrix Spike Duplicate	T	Water	300.0	
360-24080-7	OC-ISCO-1	T	Water	300.0	
360-24080-8	OC-PZ-18R DUP	T	Water	300.0	
Analysis Batch:360-47791					
LCS 360-47791/4	Lab Control Sample	T	Water	300.0	
MB 360-47791/3	Method Blank	T	Water	300.0	
360-24080-1	OC-ISCO-3	T	Water	300.0	
360-24080-2	OC-ISCO-2	T	Water	300.0	
360-24080-3	OC-PZ-16RR	T	Water	300.0	

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Quality Control Results

Client: Olin Corporation

Job Number: 360-24080-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report		Method	Prep Batch
		Basis	Client Matrix		
General Chemistry					
Analysis Batch:360-47792					
LCS 360-47792/4	Lab Control Sample	T	Water	300.0	
MB 360-47792/3	Method Blank	T	Water	300.0	
360-24080-4	OC-PZ-17RR	T	Water	300.0	
360-24080-5	OC-SD-17	T	Water	300.0	
360-24080-6	OC-PZ-18R	T	Water	300.0	
360-24080-6MS	Matrix Spike	T	Water	300.0	
360-24080-6MSD	Matrix Spike Duplicate	T	Water	300.0	
360-24080-7	OC-ISCO-1	T	Water	300.0	
360-24080-8	OC-PZ-18R DUP	T	Water	300.0	
Analysis Batch:360-47801					
LCS 360-47801/1	Lab Control Sample	T	Water	SM 2510B	
MB 360-47801/4	Method Blank	T	Water	SM 2510B	
360-24080-1	OC-ISCO-3	T	Water	SM 2510B	
360-24080-2	OC-ISCO-2	T	Water	SM 2510B	
360-24080-3	OC-PZ-16RR	T	Water	SM 2510B	
360-24080-4	OC-PZ-17RR	T	Water	SM 2510B	
360-24080-5	OC-SD-17	T	Water	SM 2510B	
360-24080-6	OC-PZ-18R	T	Water	SM 2510B	
360-24080-6DU	Duplicate	T	Water	SM 2510B	
360-24080-7	OC-ISCO-1	T	Water	SM 2510B	
360-24080-8	OC-PZ-18R DUP	T	Water	SM 2510B	
Prep Batch: 360-47843					
LCS 360-47843/2-A	Lab Control Sample	T	Water	Distill/Ammonia	
MB 360-47843/1-A	Method Blank	T	Water	Distill/Ammonia	
360-24080-6	OC-PZ-18R	T	Water	Distill/Ammonia	
360-24080-6MS	Matrix Spike	T	Water	Distill/Ammonia	
360-24080-6MSD	Matrix Spike Duplicate	T	Water	Distill/Ammonia	
360-24080-7	OC-ISCO-1	T	Water	Distill/Ammonia	
360-24080-8	OC-PZ-18R DUP	T	Water	Distill/Ammonia	
Analysis Batch:360-47865					
LCS 360-47843/2-A	Lab Control Sample	T	Water	L107-06-1B	360-47843
MB 360-47843/1-A	Method Blank	T	Water	L107-06-1B	360-47843
360-24080-6	OC-PZ-18R	T	Water	L107-06-1B	360-47843
360-24080-6MS	Matrix Spike	T	Water	L107-06-1B	360-47843
360-24080-6MSD	Matrix Spike Duplicate	T	Water	L107-06-1B	360-47843
360-24080-7	OC-ISCO-1	T	Water	L107-06-1B	360-47843
360-24080-8	OC-PZ-18R DUP	T	Water	L107-06-1B	360-47843

Report Basis

T = Total

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Quality Control Results

Client: Olin Corporation

Job Number: 360-24080-1

Method Blank - Batch: 360-47711

Method: 6010B
Preparation: 3010A

Lab Sample ID: MB 360-47711/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/13/2009 1435
Date Prepared: 08/13/2009 0703

Analysis Batch: 360-47761
Prep Batch: 360-47711
Units: ug/L

Instrument ID: Varian 720 ES ICP
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Aluminum	ND		39	100
Chromium	ND		1.3	5.0
Sodium	ND		250	2000

Lab Control Sample/ Lab Control Sample Duplicate Recovery Report - Batch: 360-47711

Method: 6010B
Preparation: 3010A

LCS Lab Sample ID: LCS 360-47711/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/13/2009 1502
Date Prepared: 08/13/2009 0703

Analysis Batch: 360-47761
Prep Batch: 360-47711
Units: ug/L

Instrument ID: Varian 720 ES ICP
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

LCSD Lab Sample ID: LCSD 360-47711/3-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/13/2009 1511
Date Prepared: 08/13/2009 0703

Analysis Batch: 360-47761
Prep Batch: 360-47711
Units: ug/L

Instrument ID: Varian 720 ES ICP
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Aluminum	90	90	80 - 120	0	20		
Chromium	93	93	80 - 120	0	20		
Sodium	90	90	80 - 120	0	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Olin Corporation

Job Number: 360-24080-1

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 360-47711

Method: 6010B

Preparation: 3010A

MS Lab Sample ID: 360-24080-6
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/13/2009 1517
Date Prepared: 08/13/2009 0703

Analysis Batch: 360-47761
Prep Batch: 360-47711

Instrument ID: Varian 720 ES ICP
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

MSD Lab Sample ID: 360-24080-6
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/13/2009 1520
Date Prepared: 08/13/2009 0703

Analysis Batch: 360-47761
Prep Batch: 360-47711

Instrument ID: Varian 720 ES ICP
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	<u>% Rec.</u>		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Aluminum	84	83	75 - 125	1	20		
Chromium	87	85	75 - 125	1	20		
Sodium	72	73	75 - 125	0	20	F	F

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Olin Corporation

Job Number: 360-24080-1

Method Blank - Batch: 360-47738

Method: 6010B
Preparation: N/A

Lab Sample ID: MB 360-47738/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/13/2009 1013
Date Prepared: N/A

Analysis Batch: 360-47738
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 720 ES ICP
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 1.0 mL

Analyte	Result	Qual	MDL	RL
Aluminum	ND		39	100
Chromium	ND		1.3	5.0
Sodium	ND		250	2000

Lab Control Sample/

Lab Control Sample Duplicate Recovery Report - Batch: 360-47738

Method: 6010B
Preparation: N/A

LCS Lab Sample ID: LCS 360-47738/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/13/2009 1011
Date Prepared: N/A

Analysis Batch: 360-47738
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 720 ES ICP
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 360-47738/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/13/2009 1100
Date Prepared: N/A

Analysis Batch: 360-47738
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 720 ES ICP
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 10 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Aluminum	100	99	80 - 120	1	20		
Chromium	99	98	80 - 120	1	20		
Sodium	99	98	80 - 120	1	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Olin Corporation

Job Number: 360-24080-1

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 360-47738

Method: 6010B

Preparation: N/A

MS Lab Sample ID: 360-24080-6
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/13/2009 1106
Date Prepared: N/A

Analysis Batch: 360-47738
Prep Batch: N/A

Instrument ID: Varian 720 ES ICP
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 10 mL

MSD Lab Sample ID: 360-24080-6
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/13/2009 1108
Date Prepared: N/A

Analysis Batch: 360-47738
Prep Batch: N/A

Instrument ID: Varian 720 ES ICP
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 10 mL

Analyte	<u>% Rec.</u>		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Aluminum	105	101	75 - 125	4	20		
Chromium	103	99	75 - 125	4	20		
Sodium	79	72	75 - 125	1	20	4	4

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Olin Corporation

Job Number: 360-24080-1

Method Blank - Batch: 360-47788

Method: 300.0

Preparation: N/A

Lab Sample ID: MB 360-47788/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/13/2009 1412
Date Prepared: N/A

Analysis Batch: 360-47788
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

Analyte	Result	Qual	RL	RL
Nitrate as N	ND		0.050	0.050
Nitrite as N	ND		0.010	0.010

Lab Control Sample - Batch: 360-47788

Method: 300.0

Preparation: N/A

Lab Sample ID: LCS 360-47788/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/13/2009 1427
Date Prepared: N/A

Analysis Batch: 360-47788
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Nitrate as N	4.00	4.11	103	85 - 115	
Nitrite as N	4.00	4.03	101	85 - 115	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Olin Corporation

Job Number: 360-24080-1

Method Blank - Batch: 360-47789

Method: 300.0

Preparation: N/A

Lab Sample ID: MB 360-47789/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/13/2009 2045
Date Prepared: N/A

Analysis Batch: 360-47789
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

Analyte	Result	Qual	RL	RL
Nitrate as N	ND		0.050	0.050
Nitrite as N	ND		0.010	0.010

Lab Control Sample - Batch: 360-47789

Method: 300.0

Preparation: N/A

Lab Sample ID: LCS 360-47789/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/13/2009 2100
Date Prepared: N/A

Analysis Batch: 360-47789
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Nitrate as N	4.00	4.21	105	85 - 115	
Nitrite as N	4.00	4.10	103	85 - 115	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Olin Corporation

Job Number: 360-24080-1

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 360-47789

Method: 300.0

Preparation: N/A

MS Lab Sample ID: 360-24080-6
Client Matrix: Water
Dilution: 10
Date Analyzed: 08/13/2009 2130
Date Prepared: N/A

Analysis Batch: 360-47789
Prep Batch: N/A

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 10 mL

MSD Lab Sample ID: 360-24080-6
Client Matrix: Water
Dilution: 10
Date Analyzed: 08/13/2009 2146
Date Prepared: N/A

Analysis Batch: 360-47789
Prep Batch: N/A

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 10 mL

Analyte	<u>% Rec.</u>		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Nitrate as N	116	116	75 - 125	0	20		
Nitrite as N	114	113	75 - 125	0	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Olin Corporation

Job Number: 360-24080-1

Method Blank - Batch: 360-47791

Method: 300.0

Preparation: N/A

Lab Sample ID: MB 360-47791/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/13/2009 1414
Date Prepared: N/A

Analysis Batch: 360-47791
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

Analyte	Result	Qual	RL	RL
Sulfate	ND		2.0	2.0
Chloride	ND		1.0	1.0

Lab Control Sample - Batch: 360-47791

Method: 300.0

Preparation: N/A

Lab Sample ID: LCS 360-47791/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/13/2009 1427
Date Prepared: N/A

Analysis Batch: 360-47791
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Sulfate	80.0	81.1	101	85 - 115	
Chloride	40.0	40.2	100	85 - 115	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Olin Corporation

Job Number: 360-24080-1

Method Blank - Batch: 360-47792

Method: 300.0

Preparation: N/A

Lab Sample ID: MB 360-47792/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/13/2009 2045
Date Prepared: N/A

Analysis Batch: 360-47792
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

Analyte	Result	Qual	RL	RL
Sulfate	ND		2.0	2.0
Chloride	ND		1.0	1.0

Lab Control Sample - Batch: 360-47792

Method: 300.0

Preparation: N/A

Lab Sample ID: LCS 360-47792/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/13/2009 2100
Date Prepared: N/A

Analysis Batch: 360-47792
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Sulfate	80.0	81.0	101	85 - 115	
Chloride	40.0	40.6	102	85 - 115	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Olin Corporation

Job Number: 360-24080-1

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 360-47792

Method: 300.0

Preparation: N/A

MS Lab Sample ID: 360-24080-6
Client Matrix: Water
Dilution: 10
Date Analyzed: 08/13/2009 2146
Date Prepared: N/A

Analysis Batch: 360-47792
Prep Batch: N/A

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 10 mL

MSD Lab Sample ID: 360-24080-6
Client Matrix: Water
Dilution: 10
Date Analyzed: 08/13/2009 2201
Date Prepared: N/A

Analysis Batch: 360-47792
Prep Batch: N/A

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 10 mL

Analyte	<u>% Rec.</u>		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Sulfate	126	127	75 - 125	1	20	F	F
Chloride	125	124	75 - 125	0	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Olin Corporation

Job Number: 360-24080-1

Method Blank - Batch: 360-47731

Lab Sample ID: MB 360-47731/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/13/2009 1159
Date Prepared: 08/13/2009 0855

Analysis Batch: 360-47735
Prep Batch: 360-47731
Units: mg/L

Method: L107-06-1B Preparation: Distill/Ammonia

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	RL	RL
Ammonia	ND		0.10	0.10

Lab Control Sample - Batch: 360-47731

Lab Sample ID: LCS 360-47731/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/13/2009 1200
Date Prepared: 08/13/2009 0855

Analysis Batch: 360-47735
Prep Batch: 360-47731
Units: mg/L

Method: L107-06-1B Preparation: Distill/Ammonia

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Ammonia	10.0	9.80	98	85 - 115	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Olin Corporation

Job Number: 360-24080-1

Method Blank - Batch: 360-47843

Lab Sample ID: MB 360-47843/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/17/2009 1521
Date Prepared: 08/17/2009 1345

Analysis Batch: 360-47865
Prep Batch: 360-47843
Units: mg/L

Method: L107-06-1B Preparation: Distill/Ammonia

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	RL	RL
Ammonia	ND		0.10	0.10

Lab Control Sample - Batch: 360-47843

Lab Sample ID: LCS 360-47843/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/17/2009 1522
Date Prepared: 08/17/2009 1345

Analysis Batch: 360-47865
Prep Batch: 360-47843
Units: mg/L

Method: L107-06-1B Preparation: Distill/Ammonia

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Ammonia	10.0	9.96	100	85 - 115	

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 360-47843

Method: L107-06-1B Preparation: Distill/Ammonia

MS Lab Sample ID: 360-24080-6
Client Matrix: Water
Dilution: 10
Date Analyzed: 08/17/2009 1546
Date Prepared: 08/17/2009 1345

Analysis Batch: 360-47865
Prep Batch: 360-47843

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 50 mL

MSD Lab Sample ID: 360-24080-6
Client Matrix: Water
Dilution: 10
Date Analyzed: 08/17/2009 1547
Date Prepared: 08/17/2009 1345

Analysis Batch: 360-47865
Prep Batch: 360-47843

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 50 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Ammonia	24	16	75 - 125	1	20	4	4

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Olin Corporation

Job Number: 360-24080-1

Method Blank - Batch: 360-47801

Method: SM 2510B
Preparation: N/A

Lab Sample ID: MB 360-47801/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/14/2009 1157
Date Prepared: N/A

Analysis Batch: 360-47801
Prep Batch: N/A
Units: umhos/cm

Instrument ID: MAN-TECH Ion Plus
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 1.0 mL

Analyte	Result	Qual	RL	RL
Specific Conductance	ND		1.0	1.0

Lab Control Sample - Batch: 360-47801

Method: SM 2510B
Preparation: N/A

Lab Sample ID: LCS 360-47801/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/14/2009 1132
Date Prepared: N/A

Analysis Batch: 360-47801
Prep Batch: N/A
Units: umhos/cm

Instrument ID: MAN-TECH Ion Plus
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 1.0 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Specific Conductance	1420	1410	99	85 - 115	

Duplicate - Batch: 360-47801

Method: SM 2510B
Preparation: N/A

Lab Sample ID: 360-24080-6
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/14/2009 1241
Date Prepared: N/A

Analysis Batch: 360-47801
Prep Batch: N/A
Units: umhos/cm

Instrument ID: MAN-TECH Ion Plus Autotitrat
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 1.0 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Specific Conductance	900	902	0	20	

Calculations are performed before rounding to avoid round-off errors in calculated results.

State Accreditation Matrix

Method Name	Description	State where Primary Accreditation is Carried				
		New York (NELAC)	Mass	Conn	Florida (NELAC)	North Carolina
821-R-02-012	Toxicity, Acute (48-Hour)(list upon request)				NP	
SM 4500 Cl F	Chlorine, Residual		NP			
SM 9215B	Heterotrophic Plate Count (Pour Plate Method)		P			
SM 9215E	Heterotrophic Plate Count (SimPlate)		P			
SM 9221F	E.Coli (Multiple-Tube Fermentation; EC-MUG)		P			
SM 9222B	Coliforms, Total (Membrane Filter)		P			
SM 9222D	Coliforms, Fecal (Membrane Filter)		P/NP			
SM 9223	Coliforms, Total, and E.Coli (Colilert-P/A)		P			
200.8	Metals (ICP/MS) (list upon request)	NP/P	NP/P	NP/P		
200.7 Rev 4.4	Metals (ICP)(list upon request)	NP/P	NP/P	NP/P		
6010B	Metals (ICP)(list upon request)	NP/SW		NP/SW		
245.1	Mercury (CVAA)	NP/P	NP	NP/P		
7470A	Mercury (CVAA)	NP		NP		
7471A	Mercury (CVAA)	SW		SW		
SM 2340B	Total Hardness (as CaCO3) by calculation	NP/P	NP	NP/P		
3005A	Preparation, Total Recoverable or Dissolved Metals	NP/P		NP/P		
3010A	Preparation, Total Metals	NP/P		NP/P		
3020A	Preparation, Total Metals	NP/P/SW		NP/P/SW		
3050B	Preparation, Metals	SW		SW		
504.1	EDB, DBCP and 1,2,3-TCP (GC)		P	P		
608	Organochlorine Pest/PCBs (list upon request)	NP	NP	NP		
625	Semivolatile Org Comp (GC/MS)(list upon request)	NP		NP		
3546	Microwave Extraction	SW				
3510C	Liquid-Liquid Extraction (Separatory Funnel)	NP		NP		
3540C	Soxhlet Extraction					
3550B	Ultrasonic Extraction	SW		SW		
600/4-81-045	Polychlorinated Biphenyls (PCBs) (GC)		NP	NP		
8081A	Organochlorine Pesticides (GC)(list upon request)	NP/SW		NP/SW		
8082A	PCBs by Gas Chromatography(list upon request)	NP/SW		NP/SW		
8270C	Semivolatile Comp.(GC/MS)(list upon request)	NP/SW		NP/SW		
CT ETPH	Conn - Ext. Total petroleum Hydrocarbons (GC)			NP/SW		
MA-EPH	Mass - Extractable Petroleum Hydrocarbons (GC)			NP/SW		NP/SW
524.2	Volatile Org Comp (GC/MS)(list upon request)	P	P	P		
524.2	Trihalomethanes		P	P		
624	Volatile Org Comp (GC/MS)(list upon request)	NP	NP	NP		
5035	Closed System Purge and Trap	SW		SW		
5030B	Purge and Trap	NP		NP		
8260B	Volatile Org Comp. (GC/MS)(list upon request)	NP/SW		NP/SW		
MAVPH	Mass - Volatile Petroleum Hydrocarbons (GC)			NP/SW		NP/SW
180.1	Turbidity, Nephelometric		P	P		
300	Anions, Ion Chromatography	NP/P	NP/P	NP/P		
410.4	COD	NP	NP	NP		
1010	Ignitability, Pensky-Martens Closed-Cup Method	SW		SW		
10-107-06-2	Nitrogen, Total Kjeldahl	NP	NP	NP		
7196A	Chromium, Hexavalent	NP/SW		NP/SW		
9012A	Cyanide, Total and/or Amenable	NP/SW		NP/SW		
9030B	Sulfide, Distillation (Acid Soluble and Insoluble)	NP		NP		
9040B	pH	NP		NP		
9045C	pH	SW		SW		
L107041C	Nitrogen, Nitrate	NP	P	NP/P		
L107-06-1B	Nitrogen Ammonia	NP	NP	NP/P		
L204001A CN	Cyanide, Total		NP/P	NP/P		
L210-001A	Phenolics, Total Recoverable	NP	NP	NP		
SM 2320B	Alkalinity	NP/P	NP/P	NP/P		
SM 2510B	Conductivity, Specific Conductance	NP/P	NP/P	NP/P		
SM 2540C	Solids, Total Dissolved (TDS)	NP/P	NP/P	NP/P		
SM 2540D	Solids, Total Suspended (TSS)	NP	NP	NP		
SM 3500 CR D	Chromium, Hexavalent	NP		NP		
SM 4500 H+ B	pH	NP/P	NP/P	NP/P		
SM 4500 NO2 B	Nitrogen, Nitrite	NP	P	NP/P		
SM 4500 P E	Phosphorus, Orthophosphate	NP/P	NP	NP/P		
SM 4500 P E	Phosphorus, Total	NP	NP	NP		
SM 4500 S2 D	Sulfide, Total	NP		NP		
SM 5210B	BOD, 5-Day	NP	NP	NP		
SM 5310B	Organic Carbon, Total (TOC)	NP	NP	NP/P		

Not all organic compounds are accredited under NELAC

For methods with multiple compounds all compounds may not meet NELAC criteria, listing should be obtained from the laboratory

The lab carries additional accreditations with several states. This is listing is subject to change based on the laboratories current certification standing.

Login Sample Receipt Check List

Client: Olin Corporation

Job Number: 360-24080-1

Login Number: 24080

List Source: TestAmerica Westfield

Creator: Rinard, Kimberley A

List Number: 1

Question	T / F / NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	0.8 c
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Is the Field Sampler's name present on COC?	True	
Sample Preservation Verified	True	

TestAmerica Laboratories, Inc.

Chain of Custody Form

THE LEADER IN ENVIRONMENTAL TESTING

•53 Southampton Road
Westfield, MA 01085
(P) 413-572-4000
(F) 413-572-3707

•149 Rangeway Road
N. Billerica, MA 01862
(P) 978-667-1400
(F) 978-667-7871

360-24080

Client: Olin Chemical/MACTEC		Project #: 61070090016		Job#		Quote#		PO#		Comments (Special Instructions)	
Address: 51 Eames Street Wilmington, MA 01887		Project Manager: Peter Thompson		Work ID: POMP SURRY WALL CAP		Analysis Requested Check analysis and specify method and analytes in comments section. For example: 500-series for drinking water 600-series for waste water 8000-series for haz/solid waste Use comments section to further define.		MCP case narrative			
Phone: _____ Fax: _____		Contact: David Chapman		Regulatory Classification / Special Report Format		Preservative		Plastic(P) or Glass(G)		# Containers	
Requested Turn Around Time		NPDES _____ Drinking Water _____ DEP Form(s) _____		RCRA _____ MCP GW1/S1 _____ MWRA Smart Rpt _____		Other _____ MCP QA/QC Rpt XX		Grab		Comp.	
10 Business Day (Std) XX		Rush TAT Requested: _____		24 hrs _____ 72 hrs _____		48 hrs _____ 5 Day _____		Date Time Collected		Sample Type	
Sample Type Codes		WW-Wastewater DW-Drinking water SW-Surfacewater		LW-Labwater GW-Groundwater A-Air		S-Solid / Soil SL-Sludge O-Oil Z-Other		Sample ID		Sample Type	
OC-15CO-3		SW		SW		SW		SW		SW	
OC-15CO-2		SW		SW		SW		SW		SW	
OC-PZ-16RR		SW		SW		SW		SW		SW	
OC-PZ-17RR		SW		SW		SW		SW		SW	
OC-SD-17		SW		SW		SW		SW		SW	
OC-PZ-18R		SW		SW		SW		SW		SW	
OC-15CO-1		SW		SW		SW		SW		SW	
OC-PZ-18R-DUP		SW		SW		SW		SW		SW	
OC-PZ-18MS		SW		SW		SW		SW		SW	
OC-PZ-18MSD		SW		SW		SW		SW		SW	
Sampled by (print): David Chapman / Marie Maggiore		Signature: [Signature]		Received by: Tim Koble		Date: 8-12-09		Time: 1630		Cooler: [X] N Samples/Feed: [X] N	
Relinquished by: David Chapman		Date: 8-12-09		Time: 1630		Received by: [Signature]		Date: 8-12-09		Temp @ receipt: 68°C	
Relinquished by: Tim Koble		Date: 8-12-09		Time: 1840		Received by: [Signature]		Date: 8-12-09		Preservation/pH checked	
Method of shipment:		TestAmerica-Westfield		By: [Signature]		Date: 8/12/09					